

Factoring quadratic expressions with $a > 1$:

When the number in front of x^2 is not 1, you cannot factor it using the general method we discussed yesterday.

{ Instead, you are going to use a method called "a" times "c", rewrite "b", and then factor by grouping.

1) $\overset{a}{6}x^2 + \overset{b}{11}x + \overset{c}{3}$

$$(6x^2 + 2x + 9x + 3)$$

$$2x(3x+1) + 3(3x+1)$$

$$(3x+1)(2x+3)$$

$$\begin{array}{r|l} 18 & \\ \hline 1 & 18 \\ 2 & 9 \\ 3 & 6 \end{array}$$